



ENHANCED THREAT AND RISK ASSESSMENT

COURSE SYLLABUS

This training program was developed in cooperation with
The Texas A&M University System, Texas Engineering Extension Service (TEEX)
National Emergency Response and Rescue Training Center (NERRTC)
A Member of the National Domestic Preparedness Consortium

Course Outline

0. Course Orientation

- A. Instructor Introduction and Welcome
- B. Supporting Agencies
- C. Course Goal
- D. Participant Audience
- E. Course Modules

1. Review of Potential Threat Elements and Vulnerability

- A. Potential Threat Element (PTE)
- B. Weapons of Mass Destruction
- C. ODP Factors for Assessing Vulnerabilities of Potential Targets
- D. Other Vulnerability Models
- E. Gauging the Vulnerability and Level of Mitigation

2. Security Engineering Concepts

- A. All Hazards or Design Basis Threat
- B. Physical Security
- C. Crime Prevention through Environmental Design (CPTED)
- D. Protection in Depth
- E. Security Redundancy

3. Security Systems

- A. Objectives of a Security System
- B. Perimeter Security
- C. Securing Portals
- D. Sensors
- E. Closed-Circuit Television (CCTV)
- F. Alarms
- G. Lighting

4. Building Systems

- A. Electrical Power
- B. Water
- C. Information Technology (IT) Systems
- D. HVAC Systems

5. Special Site Security Requirements

- A. Government Buildings
- B. Emergency Services
- C. Health Care Facilities
- D. Utilities – Electrical Power, Water and Gas
- E. Bulk Storage
- F. Transportation
- G. Educational Institutions
- H. Commercial and Industrial Facilities
- I. Media and Communications
- J. Banking and Finance
- K. Military Installations
- L. Entertainment, Sports and Tourism
- M. Special Sites and Events

6. Preparation for a Vulnerability Assessment

- A. Organize the Team
- B. Identify Assets
- C. Schedule the Assessment
- D. Obtain Documents
- E. Social and Political Environment
- F. Emergency Plans

7. Performing the Assessment at the Potential Target

- A. Identify Vulnerabilities
- B. Interviews
- C. Written Report

Course Objectives

The goal of this course is to help to prevent an attack in your jurisdiction. Enhanced Threat and Risk Assessment (ET&RA) is designed to teach multidiscipline teams the skills necessary to conduct an enhanced vulnerability assessment in order to identify weaknesses in potential targets that could be exploited within the jurisdiction. The skills learned in this course will better prepare the jurisdiction to reduce its vulnerabilities at critical assets and prevent an attack with a WMD.

Module 0: Course Orientation

Terminal Objective

Describe the government agencies supporting this training and the purpose of the course, including the overall objectives.

Enabling Objectives

- Describe the role of The Department of Homeland Security (DHS), The Office for Domestic Preparedness (ODP) the National Emergency Response and Rescue Training Center (NERRTC) and the National Domestic Preparedness Consortium (NDCP)
- Identify the course goal
- Identify the course modules and topics of each

Module 1: Review of Potential Threat Elements and Vulnerability

Terminal Objective

Identify weapons of mass destruction (WMD) and factors for assessing potential threat elements (PTEs) and for assessing vulnerabilities.

Enabling Objectives

- Identify weapons of mass destruction
- Identify factors for assessing potential threat elements (PTEs)
- Identify ODP factors for assessing vulnerabilities of potential targets
- Describe other vulnerability models

Module 2: Security Engineering Concepts

Terminal Objective

Explain security concepts as they relate to design and prevention of terrorism/WMD attacks.

Enabling Objectives

- Describe the difference between a “design basis threat” and an “all hazards” approach in building design
- Define Crime Prevention Through Environmental Design (CPTED)
- Define Protection in Depth
- Define the phrase “security redundancy”

Module 3: Security Systems

Terminal Objective

Identify the objectives of a good security system and methods of detecting and restricting access to a secure area.

Enabling Objectives

- Identify the five objectives of an effective security system
- Describe methods of perimeter security
- Describe methods for securing portals
- Discuss the use of sensors
- Discuss the use of closed-circuit televisions
- Explain the role of alarms
- Describe the use of lighting

Module 4: Building Systems

Terminal Objective

Describe vulnerabilities of building systems.

Enabling Objectives

- Describe the importance of and vulnerabilities to the power system
- Describe the importance of and vulnerabilities to the water system
- Describe the importance of and vulnerabilities to the information technology system
- Describe the importance of and vulnerabilities to the Heating, Ventilating and Air Conditioning System (HVAC)
- Discuss detection technologies

Module 5: Special Site Security Requirements

Terminal Objective

Identify potential targets that are high risk and the resulting special requirements for security.

Enabling Objectives

- Discuss the vulnerabilities of government buildings
- Discuss the vulnerabilities of emergency services
- Discuss the vulnerabilities of health care facilities
- Discuss the vulnerabilities of utilities
- Discuss the vulnerabilities of bulk storage transportation
- Discuss the vulnerabilities of environmental institutions
- Discuss the vulnerabilities of commercial and industrial facilities
- Discuss the vulnerabilities of media and communications
- Discuss the vulnerabilities of banking and finance
- Discuss the vulnerabilities of special sites and events

Module 6: Preparation for a Vulnerability Assessment

Terminal Objective

Organize an assessment of a facility.

Enabling Objectives

- Organize team for the assessment
- Identify assets of the potential target
- Set-up the assessment
- Obtain and review documents
- Assess the social and political environment
- Assess emergency preparations

Module 7: Summary and Review

Terminal Objective

Complete the tasks necessary to conduct a vulnerability assessment.

Enabling Objectives

- Inspect the premises to identify vulnerabilities
- Use interviews to identify vulnerabilities
- Prepare notes, sketches and photographs to document vulnerabilities
- Prepare a vulnerability report